|   | Index of Claims                                  |          |                     |                 |          |   |               |                 |          |            |                              |          |              | Α                       | Application/Control No. |            |               |               |                 |              |  |                   |            | Applicant(s)/Patent under Reexamination |              |            |  |                 |                       |              |           |  |  |
|---|--|----------|---------------------|-----------------|----------|---|---------------|-----------------|----------|------------|------------------------------|----------|--------------|-------------------------|-------------------------|------------|---------------|---------------|-----------------|--------------|--|-------------------|------------|---|--------------|------------|--|-----------------|-----------------------|--------------|-----------|--|--|
|   |  |          |                     |                 |          |   |               |                 |          |            |                              |          |              | ۰                       | 10/683,979<br>Examiner  |            |               |               |                 |              |  |                   |            |   |              |            |  |                 |                       |              |           |  |  |
|   |  |          |                     |                 |          |   |               |                 |          |            |                              |          |              |                         |                         |            |               |               |                 |              |  |                   |            | KUZNETSOV, MAF                          |              |            |  |                 |                       |              | < E       |  |  |
|   |  |          |                     |                 |          |   |               |                 |          |            |                              |          |              |                         | ļ                       | į          |               |               |                 |              |  |                   |            |   |              |            | III  |                 |                       |              |           |  |  |
|   | 1:00:00:00:00:00:00:00:00:00:00:00:00:00         |          |                     |                 |          |   |               |                 |          |            |                              |          |              |                         | Н                       | Hung T. Vy |               |               |                 |              |  |                   |            | 28                                      | 21           |            |  |                 | $\perp$               |              |           |  |  |
|   |  |          | _                   | _               |          |   | ٦             | ſ               |          |            |                              |          |              |                         |                         | $\neg$     | Г             | $\neg$        | <del> </del>    |              |  |                   | 1          |   |              |            |  | $\neg$          |                       |              |           |  |  |
|   |  |          | √                   | Re              | Rejected |   |               |                 | -        | Γ)         | (Through numera<br>Cancelled |          |              |                         | al)                     | al)        |               | N             | Non-Elect       |              | led  |                   | $ _{A} $   | Appeal                                  |              |            |  |                 |                       |              |           |  |  |
|   |  |          |                     | Allowed         |          |   | 7             | İ               |          |            | Restricted                   |          |              |                         |                         | H          | +             | into          | erference       |              |  |                   |            | Objected                                |              |            |  |                 |                       |              |           |  |  |
|   |  |          |                     |                 | Allowed  |   |               | . [             | +        | Restricted |                              |          |              |                         | I Interfe               |            |               | Пе            |                 | IICO         |  | 0                 |            |   | <b>3</b> €16 | <b>3</b> 0 |  |                 |                       |              |           |  |  |
| [ | Claim  |          |                     |                 | Date     |   |               |                 |          | Claim      |                              |          |              |                         | _ D                     | ate        | e             |               |                 |              | CI   | aim               | -          | Date                                    |              |            | _  | $\neg$          |                       |              |           |  |  |
|   | _  | <u> </u> | 8                   | П               | $\prod$  | T   | $\prod$       | П               |          |            | _                            | 7        | 3            |                         |                         |            |               |               |                 | $\square$    |  | _                 | ल          |   |              |            |  |                 |                       |              | ٦         |  |  |
|   | Final  | Original | 1 1                 |                 | ,        |   |               |                 |          |            | Final                        | Original | 'n           |                         |                         |            |               |               |                 |              |  | Final             | Original   |   |              |            |  |                 |                       |              |           |  |  |
|   |  |          | 7                   |                 | $\perp$  | $\perp$   | Ш             | Ш               | $\perp$  | _          | <u> </u>                     |          |              |                         | Ц                       | $\perp$    | $\downarrow$  | $\downarrow$  |                 | Ш            |  |                   |            |   |              | $\perp$    | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | Ш               | $\dashv$              | $\downarrow$ | _         |  |  |
|   |  | 2        | A                   | $\exists$       | +        | +   | +             | $\vdash$        | $\dashv$ | -          | -                            | 5°       | <u></u>      | +                       | $\vdash$                | $\dashv$   | +             | +             | +               | Н            |  |                   | 101<br>102 | $\vdash$                                | $\dashv$     | +          | +  | $\vdash \vdash$ | +                     | +            | $\dashv$  |  |  |
|   |  | 3        | 口                   | 口               | 士        | 土   | 世             | 口               | 二        |            |                              | 53       | 3            | 世                       | 口                       | 士          | $\perp$       | 丰             | 士               | 口            |  |                   | 103        | П                                       |              | 士          | 口  | 口               | #                     | 士            |           |  |  |
|   |  | 4        | H                   | $\vdash \vdash$ | +        | +   | $\dashv$      | $\vdash \vdash$ | $\vdash$ | -          | <u> </u>                     | 54<br>55 |              | $\bot$                  | $\sqcup$                | $\dashv$   | +             | +             | +               | Н            |  |                   | 104        | $\vdash$                                | _ _          | +          | —  | $\vdash$        | $\dashv$              | +            | $\dashv$  |  |  |
| ŀ |  | 5<br>6   | H                   | 一               | +        | +   | +             | H               | +        | $\dashv$   | -                            | 56       | <u>}</u> +   | +                       | Н                       | +          | +             | +             | +-              | Н            |  |                   | 105        | H                                       | -            | +          | $\vdash$   | $\vdash$        | +                     | +            | $\dashv$  |  |  |
|   |  | 7        | ◨                   | ╛               | 土        | 土   | 世             |                 |          |            |                              | 57       | 7            |                         |                         | 士          | 土             | 土             | 士               |              |  |                   | 107        |   |              | 士          |  |                 |                       | $\top$       | I.        |  |  |
|   |  | 8        |                     | $\square$       | $\perp$  | $\perp$   | $\coprod$     | $\square$       |          | _          | _                            | 58       | 3            |                         | Ш                       | 4          | $\bot$        | 4             | $\bot$          | Ш            |  |                   | 108        |   | $\perp$      | $\perp$    | igspace  | $\Box$          | $\dashv$              | $\bot$       | $\Box$    |  |  |
|   |  | 9<br>10  | 1                   | $\vdash$        | +        | +   | ++            | $\vdash \vdash$ | $\vdash$ | -          | <u> </u>                     | 59<br>60 |              | +                       | $\vdash$                | $\dashv$   | +             | +             | +-              | <del> </del> |  |                   | 109<br>110 | $\vdash$                                | +-           | +          | ╀  | $\vdash$        | $\dashv$              | +            | $\dashv$  |  |  |
| Ì |  | 117      | H                   | 一               | +        | +   | +             | $\vdash$        | _        | -          |                              | 61       |              | +-                      |                         | +          | +             | +             | +               | $\vdash$     |  |                   | 111        | H                                       | +            | +          | 十  | $\vdash$        | +                     | +            | $\dashv$  |  |  |
|   |  | 12       | V                   | 괴               |          | 工   |               |                 |          |            |                              | 62       | 2            |                         |                         |            |               | 土             | 士               |              | ı  |                   | 112        |   | 士            |            |  |                 | $\top$                | 士            |           |  |  |
| [ |  |          | $\Lambda$           | $\sqcup$        | _        | $\bot$  |               | $\Box$          |          | _          |                              | 63       |              |                         |                         |            | $\downarrow$  | $\perp$       | $\perp$         |              | ı  |                   | 113        |   | $\bot$       | Ţ          | $\square$  | $\Box$          | $\operatorname{\Box}$ | ightarrow    | $\Box$    |  |  |
| } | <del>                                     </del> | 14<br>15 | ╁╂┤                 | $\dashv$        | +        | +   | +             | $\vdash \vdash$ | +        | -          | <u> </u>                     | 64<br>65 |              | +                       | $\vdash \vdash$         | +          | +             | +             | $+\!-\!\!\!\!-$ | Н            |  |                   | 114<br>115 | -                                       | +            | +          | ₩  | $\vdash$        | +                     | +            | $\dashv$  |  |  |
| ł |  | 16       | H                   | 一               | +        | +   | ++            | $\vdash$        | $\dashv$ | -          | $\vdash$                     | 66       | <u>;</u>     | +                       | $\vdash$                | +          | +             | +             | +-              | Н            | 1  | $\neg$            | 116        | $\vdash$                                | +            | +          | $\vdash$   | $\vdash$        | +                     | +            | $\dashv$  |  |  |
| Ì |  | 17       |                     | $\Box$          | 士        | 士   |               |                 | 士        |            |                              | 67       | 7            |                         |                         | $\top$     | 士             | $\top$        | +               |              |  |                   | 117        |   | T            | 士          | +-   |                 | $\top$                | 士            | $\exists$ |  |  |
|   |  | 18       | 17                  | $\Box$          | 丰        | 工   | $\Box$        | $\Box$          | $\Box$   | ]          |                              | 68       | В            | $\Box$                  |                         | $\Box$     | Ţ             | ightharpoonup | $\perp$         | $\Box$       |  |                   | 118        | П                                       |              | I          |  | $\Box$          | $\Box$                | 工            | $\Box$    |  |  |
| } |  | 19<br>20 |                     | $\vdash$        | +        | +   | +-+           | $\dashv$        | +        | -          | <u> </u>                     | 69       | <del>!</del> | +                       |                         | +          | +             | +             | +               | Н            | <b>                                     </b> |                   | 119<br>120 | $\vdash$                                |              | +          | igspace  | $\vdash \vdash$ | +                     | +            | $\dashv$  |  |  |
| ŀ |  | 21       |                     |                 | +        | +   | ++            | $\Box$          | +        | -          | -                            | 71       |              | +-                      | $\vdash$                | +          | +             | +             | +               | Н            |  | $\neg$            | 120        | ╁                                       | $\dashv$     | +          | +  | <del>  </del>   | +                     | +            | $\dashv$  |  |  |
|   |  | 52       | 曰                   | $\exists$       | 士        | 士   |               | 寸               | 士        |            |                              | 72       | 2            | †                       | 口                       | I          | I             | t             |                 |              |  |                   | 122        |   | 1            | 士          | +  |                 | $\top$                | 士            | $\exists$ |  |  |
|   |  | 23       |                     | 耳               | 工        | 工   | $\square$     | $\Box$          | $\Box$   | ]          |                              | 73       | 3            | $\square$               |                         | $\Box$     | ightharpoonup | Ţ             |                 |              |  |                   | 123        |   | Ţ            | Ţ          |  | П               | $\downarrow$          | 工            | $\Box$    |  |  |
| } |  | 24<br>25 | H                   | $\dashv$        | +        | +   | ++            | $\dashv$        | +        | -          | <u> </u>                     | 74       | <u>:</u> -   | +                       | $\vdash$                | $\dashv$   | +             | +             | +               | Н            |  |                   | 124<br>125 | -                                       | -            | +          | +  | $\vdash \vdash$ | +                     | +            | $\dashv$  |  |  |
| } | -  | 200      | 1                   | $\dashv$        | +        | +   | ++            | $\dashv$        | $\dashv$ | $\dashv$   | $\vdash$                     | 76       | <u>'</u> +-  | +                       | $\vdash$                | +          | +             | +             | +               | Н            | <u> </u>                                     | -                 | 126        | Н                                       | +            | +          | H  | $\vdash$        | +                     | +            | $\dashv$  |  |  |
|   | -  | -27-     | 17                  | d               | 士        | 士   | $\Box$        |                 |          |            |                              | 77       | 7            |                         |                         |            | 十             | 十             | $\top$          | П            |  |                   | 127        | Н                                       | $\top$       | +          | ${}^{\dagger}$   | 一               | 十                     | $\top$       | $\dashv$  |  |  |
|   |  | 28       | V                   | $\Box$          |          | $\perp$   | $\coprod$     | $\Box$          | 工        |            |                              | 78       |              | П                       | $\Box$                  | $\Box$     | I             | I             | $\perp$         |              | ]  |                   | 128        |   |              |            |  | П               | $\Box$                | $\perp$      |           |  |  |
| - |  | 29<br>30 | $\vdash$            | $\dashv$        | +        | +-  | +             | $\dashv$        | $\dashv$ | -          | <u> </u>                     | 79       |              | $\sqcup$                | $\vdash \vdash$         | +          | +             | +             | 44              | $\vdash$     | -  |                   | 129        | $\sqcup$                                | +            | +          | $\sqcup$   | $\dashv$        | +                     | +            | _         |  |  |
|   | $\dashv$   | 31       | $\vdash$            | $\dashv$        | -+-      | +   | ++            | $\dashv$        | -        | -          | $\vdash$                     | 80       |              | +                       | $\vdash$                | +          | +             | +             | ┿               | $\vdash$     | -  | $\dashv$          | 130<br>131 | $\vdash$                                | +            | +-         | $\vdash$   | $\dashv$        | ╬                     | +            | $\dashv$  |  |  |
| ļ | $\neg$   | 32       | 一                   | 一               | $\neg$   | +   | +             | $\dashv$        | $\dashv$ | 1          |                              | 82       |              | +                       | $\Box$                  | _          | 十             | +             | +               | М            |  | $\dashv$          | 132        | H                                       | $\top$       | +-         | $\vdash$   | $\vdash$        | 十                     | 十            | $\dashv$  |  |  |
| Ţ |  | 33       | $\Box$              | $\Box$          | 工        | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\Box$        | $\Box$          | $\Box$   | $\exists$  |                              | 83       | 3            |                         | $\square$               | 1          | 工             | $\perp$       |                 |              |  |                   | 133        |   |              |            |  | $\Box$          | ユ                     | $\perp$      | $\Box$    |  |  |
|   | $\longrightarrow$                                | 34       | $\vdash$            | $\dashv$        | +        | —   | +             | $\dashv$        |          | _          | <u> </u>                     | 84       |              | $\bot$                  | $\sqcup$                | 4          | 4             | 4             | $\bot$          |              |  |                   | 134        | $\sqcup$                                | _            | $\bot$     | Ш  | $\dashv$        | 4                     | $\bot$       | 4         |  |  |
| } | $\dashv$   | 35<br>36 | $\vdash \vdash$     | -               | +        | +-  | +-+           | $\dashv$        | -        | -          | <u> </u>                     | 85       |              | +                       | $\vdash$                |            | ╬             | ┿             | ┿               | Н            | -  |                   | 135<br>136 | $\vdash$                                | +            | +          | $\dashv$   | $\dashv$        | -                     | +            | $\dashv$  |  |  |
| ŀ | $\neg$   | 37       | 一                   | $\dashv$        | +        | +   | +             | 寸               | 十        | -          |                              | 87       |              | $\forall$               | H                       | +          | +             | 十             | +               | Н            | -  | $\dashv$          | 137        | $\Box$                                  | $\top$       | +          | $\vdash$   | $\dashv$        | _                     | $\dashv$     | $\dashv$  |  |  |
|   |  | 38       | 口                   | コ               | 工        | I   | $\Box$        | $\Box$          | 工        |            |                              | 88       | 3            | П                       |                         |            | 工             |               |                 |              |  |                   | 138        |   |              | 上          |  |                 | $\perp$               | 土            | _         |  |  |
| - |  | 39       | $\vdash \vdash$     | $\dashv$        | +        | +   | ++            | $\dashv$        | +        | -          | <u> </u>                     | 89       |              | +                       | $\dashv$                | _          | +             | +             | +               | Ш            | -  | $\longrightarrow$ | 139        | $\vdash$                                | 4            | $\bot$     | Ш  | $\dashv$        | 4                     | +            | 4         |  |  |
| } | $\dashv$   | 40       | $\vdash$            | +               | +        | +   | +             | $\dashv$        | +        | -          | $\vdash$                     | 90       |              | ++                      | -+                      | +          | +             | +             | +               | $\vdash$     | -  | $\dashv$          | 140<br>141 | $\vdash$                                | +            | +          | $\vdash$   | _               | +                     | +            | $\dashv$  |  |  |
| ŀ |  | 42       | 一                   | $\top$          | +        | 十   | $\forall$     | 十               | 十        | -          | $\vdash$                     | 92       |              | $\forall$               | 一                       | +          | +             | +             | +-1             | П            | -  | -                 | 142        |   | -            | +          | $\forall$  |                 | +                     | +            | $\exists$ |  |  |
|   |  | 43       | 口                   | 1               |          |   | П             | $\Box$          | 工        |            |                              | 93       | 3            |                         |                         |            | I             | 土             |                 |              |  |                   | 143        |   |              | I          |  | 1               | 工                     | 工            | _         |  |  |
|   | $\longrightarrow$                                | 44       | $\vdash$            | _               | +        | 4   | ++            | $\dashv$        | _        | 4          | <u> </u>                     | 94       |              | $\sqcup$                | $\dashv$                | +          | +             | +             | +               | Н            | -  | $\dashv$          | 144        | Н                                       | _            | ╀          | Ļij  | $\dashv$        | $\perp$               | 4            | 4         |  |  |
| } |  | 45<br>46 | $\dashv$            | <del></del>     | +        | +-  | ++            | $\dashv$        | +        | -          |                              | 95<br>96 |              | $\dashv$                | $\dashv$                | +          | +             | +             | +               | Н            | -  |                   | 145<br>146 | H                                       | +            | ╁          | $\vdash$   | $\dashv$        | +                     | +            | 4         |  |  |
| - | $\dashv$   | 47       | 一                   | +               | +        | +   | +             | $\dashv$        | $\dashv$ | -          |                              | 97       |              | +                       | $\dashv$                | +          | +             | 十             | +               | Н            | -  |                   | 147        | H                                       | +            | +          | $\vdash$   | $\dashv$        | +                     | +            | $\dashv$  |  |  |
|   |  | 48       | $\Box$              | $\Box$          | $\bot$   | 工   | $\Box$        | $\Box$          |          | ]          |                              | 98       | 3            |                         | $\Box$                  |            | 土             | $\perp$       |                 |              |  |                   | 148        |   |              | I          |  | $\Box$          | $\perp$               | $\perp$      | _         |  |  |
| Ļ | $\dashv$   | 49       | $\mapsto$           | $\dashv$        | -        | 4   | $\bot$        | $\dashv$        | +        | 4          |                              | 99       | ;┼           | $\downarrow \downarrow$ | $\dashv$                | $\bot$     | $\bot$        | $\bot$        | $\perp \perp$   | Ш            | -  |                   | 149        |   | 4            | ↓_         | Ш  | $\dashv$        | _                     | $\bot$       | _         |  |  |
| Ĺ |  | 50       | $oldsymbol{\sqcup}$ | Ш               | $\perp$  |   | $\perp \perp$ |                 | ᆚ        |            |                              | 100      | <u>」</u>     | $\perp$                 | $\perp$                 | 丄          |               | 丄             | $\perp$         | الت          | ·····L                                       |                   | 150        |   |              | Щ.         | $\perp \perp$  | $\perp$         |                       | $\perp$      |           |  |  |